DRAFT - NOV 0 6 1990

Harrison Gas Plant 3-29-91

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Scoresheets

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Date: 3-29-9/

GENERAL INFORMATION (continued)

Source Descriptions:

The site encompasses ~ 26 acres. It is estimated that MB acres are contaminated with petroleum products and oil gas manufacturing wastes Contamination probably exists as soil and grandwater conformination.

Waste Characteristics (WC) Calculations:

See PA Table 1, page 5)

Bacres contaminated > WC = 18

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Site Name: Harrison Gas Plant
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PA TABLE 1: WASTE CHARACTERISTICS (WC) SCORES

PA Table 1a: WC Scores for Single Source Sites and Formulas for Multiple Source Sites

T		SINGLE S	SOURCE SITES (assigned WC s	cores)	MULTIPLE SOURCE SITES
E R	SOURCE TYPE	WC = 18	WC = 32	WC = 100	Formula for Assigning Source WQ Values
CONSTITUENT	N/A	≤ 100 lbs	> 100 to 10,000 lbs	> 10,000 lbs	/bs ÷ 1
VASTESTREAY	N/A	≤ 500.000 lbs	> 500,000 to 50 million lbs	>50 million lbs	/bs ÷ 5.000
	Langfill	≤6.75 million ft ³ ≤250,000 yd ³	> 6.75 million ft² to 675 million ft² > 250.000 to 25 million ya²	> 675 million ft ³ > 25 million ya ³	fr ² + 67.500 ya ³ + 2.500
	Surface impoundment	≤ 6.75 0 ft ³ ≤ 250 yd ³	> 6.750 ft ² to 675,000 ft ² (> 250 to 25,000 yd ²	> 675.000 ft ³ > 25.000 yd ³	ft ³ + 67.5 yd ³ + 2.5
0	Drums	≤1.000 drums	>1,000 to 100,000 drums	>100,000 drums	d rums + 10
L U M	Tanks and non- drum containers	≤50,000 gallon s	>50,000 to 5 million gallons	>5 million gallons	gailons - 500
E	Contaminated soil	≤6.75 million ft ³ ≤250,000 ya ³	> 6.75 million ft ³ to 675 million ft ³ > 250,000 to 25 million ya ³	> 675 million ft ³ > 25 million ya ³	ft + 67,500 ya + 2,500
	Pile	≤6.750 ft ² ≤250 yd ³	> 6.750 ft ² to 675.000 ft ² > 250 to 25.000 yd ²	> 675.000 ft ³ > 25.000 yd ³	$fr^3 + 67.5$ $ya^3 + 2.5$
	Landfill	≤340,000 ft ² ≤7.8 acres	>340,000 to 34 million ft ² >7.8 to 780 acres	>34 million ft ² >780 acres	ft + 3,400 acres + 0.078
	Surface impoundment	≤1,300 ft ² ≤0.029 acres	> 1,300 to 130,000 ft ² >0.029 to 2.9 acres	> 130,000 ft ² > 2.9 scres	$ft^2 + 13$ acres $\div 0.00029$
R	Contaminated soil	≤3.4 million ft² ≤78 acres	>3.4 million to 340 million ft ² >78 to 7,800 scres	>340 million ft ² >7,800 acres	ft ² + 34,000 acres + 0.78
A	Pil e *	≤1,300 ft² ≤0.029 acres	> 1.300 to 130.000 ft ² > 0.029 to 2.9 acres	> 130,000 ft ² > 2.9 acres	ft + 13 acres + 0.00029
	Land treatment	≤27,000 ft² ≤0. 62 acres	> 27,000 to 2.7 million ft ² > 0.62 to 62 acres	>2.7 million ft ² >62 acres	$fr^2 + 270$ acres + 0.0062

¹ ton = 2.000 lbs = 1 yd^3 = 4 drums = 200 gallons

PA Table 1b: WC Scores for Multiple Source Sites

WQ Total	WC Soore
>0 to 100	18
>100 to 10,000	32
> 10.000	100

^{*} Use area of land surface under pile, not surface area of pile.

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GROUND WATER PATHWAY SCORESHEET

Pathway Characteristics

Site Name: Harrison Gas Plant

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	Do you suspect of the Pathway Characteristics		
	Do you suspect a release (see Ground Water Pathway Criteria List, page 7)? Is the site located in karst terrain?		× No
	Depth to aquifer: Distance to the nearest drinking-water well:	Yes	<10 ft.
		Α	8 B
	OD OF RELEASE	Suspected Release	No Suspected
	CTED RELEASE: If you suspect a release to ground water (see page 7), a score of 550, and use only column A for this pathway.	550	
2. NO SU:	SPECTED RELEASE: If you do not suspect a release to ground water, and its in karst terrain or the depth to aquifer is 70 feet or less, assign a score of 340. Use only column 8 for this pathway.		:×.0 € MQI
	LR =	550	
TARGETS			
•	AY TARGET POPULATION: Determine the number of people served by water from wells that you suspect have been exposed to hazardous ices from the site (see Ground Water Pathway Criteria List, page 7).	0	
substan	DARY TARGET POPULATION: Determine the number of people served by water from wells that you do NOT suspect have been exposed to hazardous ces from the site, and assign the total population score from PA Table 2.		
1	f yes, attach a page to show apportionment calculations.	1	
- 3	T WELL: If you have identified any Primary Targets for ground water, iscore of 50; otherwise, assign the highest Nearest Well score from e.2. If no drinking-water wells exist within 4 miles, assign a score of zero.	30.20.10.0.6.3.2 04	. 2C 10 0 9 1 05 .
5. WELLHE	EAD PROTECTION AREA (WHPA): Assign a score of 20 if any portion of lated WHPA is within % mile of the site; assign 5 if from % to 4 miles.	(20), S. = OR	.20 5 at ut
	RCES: A score of 5 is assigned.	.u 5	5
	Т =	9	
WASTE C	HARACTERISTICS		
	u have identified any Primary Targets for ground water, assign the waste acteristics score calculated on page 4, or a score of 32, whichever is: ATER: do not evaluate part 8 of this factor.	(1 00 ⊕ 131	
8. If you wast	u nave NOT identified any Primary Targets for ground water, assign the e characteristics score calculated on page 4.	18	, (OD 32 · · ·
	wc -	18	
GROUND 1	WATER PATHWAY SCORE: LR x T x WC 82,500	104	1000 or 1000

Site Name: Date:

PA TABLE 2: VALUES FOR SECONDARY GROUND WATER TARGET POPULATIONS

PA Table 2a: Non-Karst Aquifers

		Nearest			Рор	ulation Se	rved by M	lells Withi	n Distance	Category	/		
1		Well	'	11	31	101	301	1,001	3,001	10,001	30,001	100,001	
Distance		(choose	10	10	to	10	10	to	to	10	10	10	Population
from Site	Population	highest)	10	30	100	300	1.000	3,000	10, 0 00	30,000	100,000	300,000	Value
0 to ¼ mile		20	1	2	5	16	52	163	521	1,633	5,214	16,325	
> ¼ to ½ mile		18	1	1	3	10	32	101	323	1,012	3,233	10,121	
> ½ to 1 mile		9	1	1	2	5	17	52	167	522	1,668	5.224	
> 1 to 2 miles		5	1	- (1	3	9	29	94	294	939	2,938	······································
> 2 to 3 miles	30	3	1	\bigcirc	1	2	7	21	68	212	678	2,122	/
>3 to 4 miles		2	1	1	1	1	4	13	42	131	417	1,306	
	Nearest Well =	3									S	core =	/

PA Table 2b: Karst Aquifers

		Nearest		Page Lod Mg 1	Pop	ulstion Se	rved by V	letts With	n Distance	Category	,		
		Well	,	11	31	101	301	1,001	3,001	10,001	30,001	100,001	
Distance	<u> </u>	luse 20	to	to	to	to	10	10	to	10	10	to	Population
from Site	Population	for karst)	10	30	100	300	1.000	3,000	10,000	30,000	100,000	100,000	Value
O to ¼ mile		20	1	2	5	16	52	163	521	1,633	5,214	16,325	2.17 AP-100
> ¼ to ½ mile	***************************************	20	1	1	3	10	32	101	323	1,012	3,233	10,121	
>% to 1 mile		20	1	1	3	8	26	82	261	816	2,607	8,162	
>1 to 2 miles		20	1	1	3	8	26	82	261	816	2,607	8,162	
> 2 to 3 miles		20	1	1	3	8	26	82	261	816	2,607	8,162	
>3 to 4 miles		20	1	1	3	8	26	8 2	261	816	2,607	8,162	
	Nearest Well =						_				S	core =	

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SURFACE WATER PATHWAY LIKELIHOOD OF RELEASE AND DRINKING WATER THREAT SCORESHEET

Pathway Characteristics		
Do you suspect a release (see Surface Water Pathway Criteria List, page 11)?	Yes	
Distance to surface water:		0-1800 11
Flood Frequency:		100 115
What is the downstream distance to the nearest drinking-water intake? Mone miles		·
nearest fishery?milesnearest sensitive environment?		

		Α	8	
LIKI	ELIHOOD OF RELEASE -	Suspected Release	No Suspected	References
		5601	V616626	710707000
1.	SUSPECTED RELEASE: If you suspect a release to surface water (see page 11),		ļ	
	assign a score of 550, and use only column A for this pathway.	550		
ì		- mig.	1500,400,300 ar 1001	
2.	NO SUSPECTED RELEASE: If you do not suspect a release to surface water, and		1	
	the distance to surface water is 2,500 feet or less, assign a score of 500; other-	1	<u> </u>	
	wise, assign a score from the table below. Use only column 8 for this pathway.	. P. W.		
	Floodalein Scare			
j	Site in annual or 10-yr floodplain 500			
	Site in 100-yr floodplain 400	•		
	Site in 500-yr floodplain 300			}
		. 488	1	(
L	Site outside 500-vr floodplain 100	1.75		l
		· 1501	(500,400,300 at 100)	1
	LR =	550]
DR	INKING WATER THREAT TARGETS			•
	TARELIA TARGETO	on sees	1	7
3.	Determine the water body types, flows (if applicable), and number of people served			
	by all drinking-water intakes within the 15-mile target distance limit. If there are no			
	drinking-water intakes within the target distance limit, assign a total Targets score		l.	
	of 5 at the bottom of this page (Resources only) and proceed to page 14.			
١,			.	
		75% 	v.	İ
			3	l
	cfs		ŀ	1
		esent.	1	İ
	cfs			<u> </u>
1.			(26)	
4.	PRIMARY TARGET POPULATION: If you suspect any drinking-water intake listed			1
1	above has been exposed to hazardous substances from the site (see Surface Water	1		1
	Pathway Criteria List, page 11), list the intake name(s) and calculate the factor			.]
	score based on the number of people served.			
ą.		1		
ľ	people x 10 =			┥
<u>د</u>	SECONDARY TARGET POPULATION: Determine the Secondary Target	,	1	
1.	Population score from PA Table 3 based on the populations using drinking-water	İ		İ
		1		
	from intakes that you do NOT suspect have been exposed to hazardous	}	}	
	substances from the site.		1	1
	Are any intakes part of a blended system? Yes No		1	
1	If yes, attach a page to show apportionment calculations.			
		150.20.10.2.1. = 0	(20,10.2,1, a) VI	1
6.	NEAREST INTAKE: If you have identified any Primary Targets for the drinking	1		1
	water threat (Factor 4), assign a score of 50; otherwise, assign the Nearest Intake		1	
	score from PA Table 3. If no drinking-water intake exists within the 15-mile target	1 /)	1	
	distance limit, assign a score of zero.	1		
	The state of the s	(5)	:51	
7.	RESOURCES: A score of 5 is assigned.	5	5	}

Site Name: Date:

PA TABLE 3: VALUES FOR SECONDARY SURFACE WATER TARGET POPULATIONS

Surface Water	ľ	Nearest			· ·	Population	Sarved by	Intakes	Nithin Flo	w Catador	γ ·	,	r	
Surface Water Body Flow Characteristics (see PA Table 4)	Population	Intake (choose highest)	1 to 30	31 to 100	101 to 300	301 to 1,000	1, 001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1,000,000	1,000,001 10 3 000 000	Population Value
< 10 cfs		20	2	5	16	52	163	521	1,633	5,214	16,325 ^t	52,136	163,246	
10 to 100 cfs		2	1	1	2	5	16	52	163	521	1,633	5,214	16,325	
> 100 to 1,000 cfs		1	٥	o	1	1	2	5	16	52	163	521	1,633	
> 1,000 to 10,000 cfs		0	o	0	o	0	1	1	2	5	16	52	163	•
> 10,000 cfs or Great Lakes		0	0	o	0	o	0	0	1	1	2	5	16	
3-mile Mixing Zone		10	1	3	8	26	82	261	816	2,607	8,162	26,068	81,663	
	est Intake =	0										5	core =	0

PA TABLE 4: SURFACE WATER TYPE / FLOW CHARACTERISTICS WITH DILUTION WEIGHTS FOR SECONDARY SURFACE WATER SENSITIVE ENVIRONMENTS

Type of S	urface Water Body	Dilution
Water Body Type	OR Flow Characteristics	Weight
minimal stream small to moderate stream moderate to large stream large stream to fiver	flow less than 10 cfs flow 10 to 100 cfs flow greater than 100 to 1,000 cfs flow greater than 1,000 to 10,000 cfs flow greater than 10,000 cfs	1 0.1 N/A N/A N/A
3-nuls mixing zone of quiet flowing streams or rivers	flow 10 cts or greater	N/A
constal tidal water (harbors, sounds, bays, etc.), ocean, or Great Lakes	N/A	N/A

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SURFACE WATER PATHWAY (continued) HUMAN FOOD CHAIN THREAT SCORESHEET

LIKELIHOOD OF REL	EASE		Suspected Release	No Suspected Release	References
Enter the Surface Water	Likelihood of Release so	core from page 12.	550	(500,400,300 er (004	
HUMAN FOOD CHA	IN THREAT TARGET	'S			
the 15-mile target d	istance limit. If there a n a Targets score of 0 a	(if applicable) for all fisheries within re no fisheries within the target at the bottom of this page and			· ·
Fishery Name		Water Body Type Flow		6	
Reciran	tional	Tidal/River NA cts (Estuarinz) cts			
	 			l.	
		cfs	i.a.		}
		cfs	(300 ar 04		
to hazardous substa	ances from the site (see	ishery listed above has been exposed a Surface Water Criteria List, page 11), Factor 10. List the Primary Fisheries:	0		
	· · · · · · · · · · · · · · · · · · ·		(210.30,12 = 0)	;210,30,12, ≠ ∪i	
assign a Secondary	•	identified any Primary Fisheries, ne table below using the LOWEST flow stance limit.			
	owest Flow	Secondary Fisheries Score			
i <u>"</u>	< 10 cfs	210	i		
	10 to 100 cfs	30			
1	> 100 cfs, coastal tidal waters, oceans, or Great Lakes	12	12		
			1300,210,30,12 = 0	1210,30,12 a vi	-
		Τ:	12	.	
		1 :		_L	

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SURFACE WATER PATHWAY (continued) ENVIRONMENTAL THREAT SCORESHEET

CELIHOOD OF RE	LEASE			Suspected Release	No Suspected Release	Refer
er the Surface Wate	r Likelihood of Release	score from page 12.	LR	- 550	.500,400,300 er 1001	
IVIRONMENTAL	THREAT TARGETS					,
and 5). If there are irmit, assign a Targ page 17.	ents within the 15-mile no sensitive environm	is (if applicable) for all surface target distance limit (see finite) sents within the 15-mile tarection of this page, and pro	PA Tables 4			
Environment Nam		Water Body Type	Flow	7	1	
Habitat of Federal 11 State Wetlande		species Marine	NA cts	parentees encodes		
			cfs cfs			
PRIMARY SENSITI	VE ENVIRONMENTS: 1	f you suspect any sensitive	e environ-	,300 æ 01		
Surface Water Crit	has been exposed to ha	f you suspect any sensitive azardous substances from tign a score of 300 and do rironments:	he site (see	, 300 er 01		
Surface Water Crit Factor 13. List the	has been exposed to ha eria List, page 11), ass e Primary Sensitive Env	azardous substances from t ign a score of 300 and do r ironments:	he site (see	0		-
Surface Water Crit Factor 13. List the SECONDARY SEN A. For Secondary	has been exposed to ha eria List, page 11), ass e Primary Sensitive Env	azardous substances from t ign a score of 300 and do r ironments:	the site (see not evaluate	0		
Secondary 100 cfs or less	has been exposed to ha eria List, page 11), ass e Primary Sensitive Env	szardous substances from tign a score of 300 and do rironments: S: s on surface water bodies wws, and do not evaluate pa	vith flows of	0		
SECONDARY SEN A. For Secondary 100 cfs or less this factor:	nas been exposed to ha eria List, page 11), asse Primary Sensitive Environments SITIVE ENVIRONMENT: Sensitive Environments, assign scores as following the Company of the C	ign a score of 300 and do reironments: S: s on surface water bodies was, and do not evaluate pa	vith flows of art B of	0		
SECONDARY SEN A. For Secondary 100 cfs or less this factor:	nas been exposed to ha eria List, page 11), ass e Primary Sensitive Environments. SITIVE ENVIRONMENT: Sensitive Environments, assign scores as following the control of th	ironments: S: s on surface water bodies v ws, and do not evaluate pa Environment Type and Va (PA Tables 5 and 6)	vith flows of art B of	0		
SECONDARY SEN A. For Secondary 100 cfs or less this factor: Flow cfs cfs	nas been exposed to ha eria List, page 11), asset Primary Sensitive Environments. SITIVE ENVIRONMENT: Sensitive Environments, assign scores as following the primary of the primary sensitive environments.	ign a score of 300 and do reironments: S: s on surface water bodies was, and do not evaluate pa	vith flows of the B of	0		
SECONDARY SEN A. For Secondary 100 cfs or less this factor: Flow cfs cfs	nas been exposed to ha eria List, page 11), ass e Primary Sensitive Environments. SITIVE ENVIRONMENTS Sensitive Environments, assign scores as following the sensitive Environments of th	ironments: S: S on surface water bodies v ws, and do not evaluate pa (PA Tables 5 and 6)	vith flows of art B of	0		
SECONDARY SEN A. For Secondary 100 cfs or less this factor: Flow cfs cfs cfs	nas been exposed to ha eria List, page 11), asset Primary Sensitive Environments. SITIVE ENVIRONMENT: Sensitive Environments, assign scores as following the control of t	ign a score of 300 and do reironments: S: s on surface water bodies was, and do not evaluate pa	vith flows of the B of	0		
SECONDARY SEN A. For Secondary 100 cfs or less this factor: Flow cfs cfs	nas been exposed to ha eria List, page 11), ass e Primary Sensitive Environments. SITIVE ENVIRONMENTS Sensitive Environments, assign scores as following the sensitive Environments of th	ign a score of 300 and do reironments: S: s on surface water bodies was, and do not evaluate pa	vith flows of art 8 of	0		
SECONDARY SEN A. For Secondary 100 cfs or less this factor: Flow cfs cfs cfs cfs cfs	nas been exposed to ha eria List, page 11), asset Primary Sensitive Environments. SITIVE ENVIRONMENT: Sensitive Environments., assign scores as following the control of	ign a score of 300 and do reironments: S: s on surface water bodies was, and do not evaluate pa	vith flows of tree of	0		
SECONDARY SEN A. For Secondary 100 cfs or less this factor: Flow cfs cfs cfs cfs cfs cfs	nas been exposed to ha eria List, page 11), asset Primary Sensitive Environments. SITIVE ENVIRONMENT: Sensitive Environments., assign scores as following the control of	ign a score of 300 and do reironments: S: S on surface water bodies was, and do not evaluate particle. Environment Type and Va (PA Tables 5 and 6)	vith flows of tree of	0		

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PA TABLE 5: SURFACE WATER AND AIR SENSITIVE ENVIRONMENTS VALUES

Sensitive Environment	Assigned Value
Critical habitat for Federally designated endangered or threatened species	100
Merine Sanctuary	
National Park	
Designated Federal Wilderness Area	
Ecologically important areas identified under the Coastal Zone Wilderness Act	
Sensitive Areas identified under the National Estuary Program or Near Coastal Water Program of the Clean W	fater Act
Critical Areas identified under the Clean Lakes Program of the Clean Water Act (subareas in lakes or entire si	med lakes)
National Monument	
National Seashore Recreation Area	
National Lakesnore Recreation Area	
Habitat known to be used by Federally designated or proposed endangered or threatened species	75
National Preserve	
National or State Wildlife Refuge	
Unit of Coastal Barner Resources System	
Federal land designated for the protection of natural ecosystems	
Administratively Proposed Federal Wilderness Area	
Spawning areas critical for the maintenance of fish/shellfish species within a river system, pay or estuary	
Migratory pathways and feeding areas critical for the maintenance of anadromous fish species in a river system.	tem
Terrestrial areas utilized by large or dense aggregations of vertebrate animals (serm-aquatic foragers) for bre	
National river reach designated as recreational	
Habitat known to be used by State designated endangered or threatened species	50
Habitat known to be used by a species under review as to its Federal endangered or threatened status	
Coastal Barrier (partially developed)	
Federally designated Scenic or Wild River	
State land designated for wildlife or game management	25
State designated Scenic or Wild River	
State designated Natural Area	
Particular areas, relatively small in size, important to maintenance of unique biotic communities	
State designated areas for the protection/maintenance of aquatic life under the Clean Water Act	5
See PA Table	6 (Surface Water Pathway)
Wetlands	or
PA T	able 9 (Air Pathway)

PA TABLE 6: SURFACE WATER WETLANDS FRONTAGE VALUES

Total Length of Wetlands	- Assigned Value
Less than 0.1 mile	0
0.1 to 1 mile	25
Greater than 1 to 2 miles	50
Greater then 2 to 3 miles	75
Greater than 3 to 4 miles	100
Greater than 4 to 8 miles	150
Greater than 8 to 12 miles	250
Greater than 12 to 16 miles	350
Greater than 16 to 20 miles	450
Greater than 20 miles	500

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SURFACE WATER PATHWAY (concluded) WASTE CHARACTERISTICS, THREAT, AND PATHWAY SCORE SUMMARY

	A	В
WASTE CHARACTERISTICS	Suspected Release	No Suspected Release
 14. A. If you have identified ANY Primary Targets for surface water (pages 12, 14, or 15), assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part 8 of this factor. B. If you have NOT identified any Primary Targets for surface water, assign the waste characteristics score calculated on page 4. 	1100.32, at 181	.1u0.32, ee 1els
WC =	18	

SURFACE WATER PATHWAY THREAT SCORES

Threat	Likelihood of Release (LR) Score (from page 12)	Targets (T) Score	Pathway Waste Characteristics (WC) Score (determined above)	Threat Score LR x T x WC / 82,500
Drinking Water	550	5	18	0,60
Human Food Chain	550	12	18	1,44
Environmental	550	10	18	1,20

SURFACE WATER PATHWAY SCORE

(Drinking Water Threat + Human Food Chain Threat + Environmental Threat)

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Date: 3-29-91

NOA	6	• >	100	1
1107	U	٠i		J

SOIL EXPOSURE PATHWAY SCORESHEET

			Pathway Characteristics			
		and benchie attend 200001 of day	Oft of areas of suspected contamination? y care on or within 200 ft of areas	Yes	No ×	
		(noiseing contamination)	o If yes, estimate the number of wor	rkers: 50	No <u>X</u>	
				A	8	,
LIK	ELIHO	OOD OF EXPOSURE		Suspected Contamination	No Suspected Contamination	Refe
1.	SUSPE A scor	CTED CONTAMINATION: Surficial re of 550 is assigned.	contamination is assumed.	550		
RE	SIDEN	IT POPULATION THREAT TAR	GETS			,
2.	o, atte	ENT POPULATION: Determine the rending school or day care on or with mination (see Soil Exposure Pathway	number of people occupying residences in 200 feet of areas of suspected referra List, page 18).	0		
3.	RESIDI assign	ENT IN DIVI DUAL: If you have ident a score of 50; otherwise, assign a	ofied any Resident Population (Factor 2), score of O.	β. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	ÿ.	
	WOIRE	Number of Warkers 0	wing table based on the total number of swith suspected contamination: Score 0 5 10 15 S: Assign a value from PA Table 7	(16, 10, 6, a o)		
	contar	Terrestrial sensitive environment initiation: Terrestrial Sensitive Environment Puregrine falcon URCES: A score of 5 is assigned.	that is located on an area of suspected	75 ** 5	•	
			T -	90		
W	ASTE	CHARACTERISTICS		10	El	Į.
7.	Assign	n the waste characteristics score ca	iculated on page 4. WC =	100.32 = 181		
		IT POPULATION THREAT SCO	82,500	10	7, B	
		POPULATION THREAT SCOR	E:	2		
		POSURE PATHWAY SCORE: Population Threat + Nearby (Population Threat	12.	B 1404	

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Site Name: Date:

PA TABLE 7: SOIL EXPOSURE PATHWAY TERRESTRIAL SENSITIVE ENVIRONMENT VALUES

Terrestrial Sensitive Environment	
Terrestrial critical habitat for Federally designated endangered or threatened species	Assigned Value
National Park	100
Designated Federal Wilderness Area	
National Monument	
Terrestrial habitat known to-be used by Federally designated or proposed threatened or endangered species	
National Preserve (terrestrial)	75
National or State terrestrial Wildlife Refuge	
Federal land designated for protection of natural ecosystems	
Administratively proposed Federal Wilderness Area	
Terrestrial areas utilized by large or dense aggregations of asimple (complete)	
Terrestrial habitat used by State designated endangered or threatened species	
Terrestrial habitat used by species under review for Federally designated endangered or threatened status	50
State lands designated for wildlife or game management	
State designated Natural Areas	25
Particular areas, relatively small in size, important to maintenance of unique biotic communities	

SITE NAME: HARRISON GAS PLANT SITE SCORE:

SCORES

REVISED HAZARD RANKING SYSTEM SCORING SPREADSHEET

VERSION 2.1

Developed for the U.S. Environmental Protection Agency bу **NUS Corporation**

SITE NAME: HARRISON GAS PLANT

EPA ID #: NJD981134117

LOCATION: HARRISON, NEW JERSEY

REGION: 2

PATHWAY

DATE: MARCH 29, 1991

RHRS SCORER: THOMAS J. MULDER

			000.125
GROUND WATER MIGRATION PATHWAY			0.00
SURFACE WATER MIGRATION PATHWA	Y		0.00
Overland	Flow/Flood	GW to SW	
Drinking Water Threat	0.00	0.00	
Human Food Chain Threat	0.00	0.00	
Environmental Threat	0.00	0.00	
Overland Flow/Flood Component	0.00		
Ground Water to Surface Water	Comp. 0.00		
SOIL EXPOSURE PATHWAY			0.00
Resident Population T	hreat 0.00E+00		
Nearby Population Thr	eat 0.00E+00		
AIR MIGRATION PATHWAY			12.52

OVERALL MIGRATION SCORE

SITE NAME: HARRISON GAS PLANT

SITE SCORE:

TABLE 6-1 AIR MIGRATION PATHWAY SCORESHEET

FAC	TOR CATEGORIES AND FACTORS		
		MAXIMUM	VALUE
	LIKELIHOOD OF RELEASE	VALUE	ASSIGNED
		***************************************	, NOOTONES
1.	Observed Release	550	0
2.	Potential to Release		•
	2a. Gas Potential to Release	500	360
	2b. Particulate Potential to Release	500	280
	2c. Potential to Release (highest	000	200
	value assigned in line 2a or 2b)	500	360
3.	Likelihood of Release	000	500
٠.	(higher of lines 1 or 2c)	550	360
	(mgher or tribes 2 or co)	330	300
	WASTE CHARACTERISTICS		
4.	Toxicity/Mobility	*	1000
5.	Hazardous Waste Quantity	*	10
6.	Waste Characteristics	100	10
	TARGETS		
7.	Nearest Individual	50	20
8.			20
٠.	8a. Level I Concentrations	**	, 0
	8b. Level II Concentrations	**	0
	8c. Potential Contamination	**	265
	8d. Population (lines 8a + 8b + 8c)	**	265
9.	Resources	5	0
	Sensitive Environments	J	
10.	10a. Actual Contamination	***	0
	10b. Potential Contamination	***	
	10c. Sensitive Environments	***	2
	(lines 10a + 10b)		٤
11	Targets		
11.	(lines 7 + 8d + 9 + 10c)	**	007
	(11mes / + od + 9 + 10c)	~~	287
	AIR MIGRATION PATHWAY SCORE		
12	Air Pathway Score (Sa)		
	[(lines $3 \times 6 \times 11)/82,500$)]****	100	12.52
	[(35 5 % 5 % 11//0E/000/J	100	12.32

SITE NAME: HARRISO		SITE SCORE:	
SOURCE 1 NAME: CONTAMI	NATED SOIL		
HAZARDOUS WASTE QUANTIT	Y VALUE	SOURCE TYPE (choose one)	
Constituents (1b) -	0 0	Landfill	
HWQ (1b)	0 0	Surface Impoundment	
Volume (cu yd)	0 0	Surface Impoundment	
Area (sq ft) 65340			
Contam Area(sq ft) 65340	0 19.21764	Tanks & Non-drum Co	ntainers
Final HWQ for the Source	19.21764		
		Pile	
HAZARDOUS SUBSTANCES		Land Treatment	
ATTRIBUTABLE TO THE SOUR	CE	Other	
* CODE CONTAMINANT		CONTAINMENT	VALUES
L42 Benzene		Ground Water Containment	0
L100 Naphthalene		(Table 3-2)	
L102 Xylene, o-		Surface Water (overland)	0
L103 Xylene, p-		(Table 4-2)	
L106 Phenol		Flood Plain (years)	
L113 Styrene		(1, 10, 100, 500, NA)	NA
L121 Toluene		Flood Frequency Value	0
L151 Benzene carbonyl	chloride	(Table 4-9)	
L186 Cresol, m-		Attractiveness/Access.	0
L187 Cresol, p-		(Table 5-6)	
L294 Pyridine		Air Containment (gas)	10
L151 Benzene carbonyl	chloride	(Table 6-3)	
		Air Containment (part.)	10
		(Table 6-9)	
		Air Source Type (gas)	19
		(Table 6-4)	
	•	Air Source Type (part.) (Table 6-4)	22

^{*} Type an "L" in front of the Code # if the substance is present or was deposited as a liquid (i.e., L##).

AIR MIGRATION PATHWAY SCORESHEET

LIKELIHOOD OF RELEASE	MAXIMUM VALUE	ASSIGNED VALUE
Is there an Observed release to Air? If Yes: CODE CONTAMINANT	Y/N	N
(Note: P## for particulate) 1. Observed Release —	550	0
 Potential to Release 2a. Gas Potential to Release 	500	360
Containment Source Type		10 19
Gas Migration Potential 2b. Particulate Potential to Release Containment	500	17 280 10
Source Type Part. Migration Potential	I	22 6
2c. Potential to Release	500	360
3. Likelihood of Release	550	360
WASTE CHARACTERISTICS		
Particulate Mobility Value 4. Toxicity/Mobility	*	0.0002 1000
5. Hazardous Waste Quantity	*	1000
6. Waste Characteristics	100	10
TARGETS		
Distance to Nearest Individual (miles)	•"	0
7. Nearest Individual Value 8. Population	50	20
Level I Population 8a. Level I Concentrations Value	**	0
Level II Population 8b. Level II Concentrations Value	**	0
Potential Contamination		
Distance Population Valu	u e 53	
0 - 1/4 200	41	
	32	
<u>-</u>	34	
	33 75	
	75 29	
8c. Total Potential Contamination Valu		265
8d. Total Population	**	265
9. Resources	5	0

SITE NAME: HARR 10. Sensitive Environ 10a. Actual Conta Wetland Acreage Valu 0 0 Potential Co	nments amination	Other Value O	SITE SCO *** Environ Total Value 0	RE: 0
	Wetland		Other	Total
Distance	Acreage	Value	Sens. Env.	lotai Value
Distance	Aci eage	Value	Sens. Env.	value
On a source	0	0		0
0 - 1/4	0	0	75	18.75
1/4-1/2	0	0	0	0
1/2-1.0	0	0	0	0
1.0-2.0	0	0	0	0
2.0-3.0	0	0	0	0
3.0-4.0	0	0	0	0
10b. Total Potent	tial Conta	aminati	on Value ***	2
Total Sensi	tive Envi	ronment	s ***	2
10c. Sensitive E	nvironmen	ts Valu	e **	. 2
11. Total Targets			**	287
AIR MIGRATION PATHWA	Y SCORE			
Air Pathway Score	e: Uncapp	ed	**	12.52
12. Air Pathway Score	e		100	12.52

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Site Name: Harrison bas Plant
Date: 3-26.61

SITE SCORE CALCULATION

	S	s,
GROUND WATER PATHWAY SCORE (S,):	1,08	1.17
SURFACE WATER PATHWAY SCORE (S,_):	3,24	10.50
SOIL EXPOSURE PATHWAY SCORE (S,J:	12.8	163.84
AIR PATHWAY SCORE (S.):	12.52	156.75
SITE SCORE:	$\sqrt{\frac{S_{gv}^2 + S_{sv}^2 + S_{so}^2 + S_{s}^2}{4}} =$	9.11